## Feature Activity 04

## A. Getting set-up

C:\Users\Rafael\Desktop\Academics\CoE197\ME8\_Containerization\_and\_Docker\3-building\_images>docker login
Authenticating with existing credentials...
time="2021-06-19T13:48:28+08:00" level=error msg="(35a1c95a) 5506496c-CredentialHelperPKG C<-S No response POST /
registry/credstore-updated\": context deadline exceeded (Client.Timeout exceeded while awaiting headers)[[STACK]]
time="2021-06-19T13:48:29+08:00" level=error msg="(9655c503) 5506496c-CredentialHelperPKG C<-S No response POST /
registry/credstore-updated\": context deadline exceeded (Client.Timeout exceeded while awaiting headers)[[STACK]]
Login Succeeded

#### B. Finding images

Use the `docker search` command to search for new images:

Stars official automated
wurstmeister/kafka Multi-Broker apache Kafka Image
319 [OK]
spotify/kafka A simple docker image with both
Kafka and ... 200 [OK]
ches/kafka Apache Kafka. Tagged versions.

JMX. Cluste... 70 [OK]
sheepkiller/kafka-manager kafka-manager
61 [OK]

Once you found an image you like, you can pull it locally
with `docker pull`, covered in the "Running Containers"
exercise.

sheepkiller/kafka-manager	kafka-manager	204	[OK]			
kafkamanager/kafka-manager	Docker image for Kafka manager	125				
ches/kafka	Apache Kafka. Tagged versions. JMX. Cluster	117	[OK]			
hlebalbau/kafka-manager	CMAK (previous known as Kafka Manager) As Do	83	[ок]			
landoop/kafka-topics-ui	UI for viewing Kafka Topics config and data	36	[OK]			
johnnypark/kafka-zookeeper	Kafka and Zookeeper combined image	23				
solsson/kafka	http://kafka.apache.org/documentation.html#q	22	[OK]			
debezium/kafka	Kafka image required when running the Debezi	21	[OK]			
landoop/kafka-lenses-dev	Lenses with Kafka. +Connect +Generators +Con	21	[ок]			
danielgsj/kafka-exporter	Kafka exporter for Prometheus	19	[οκ]			
landoop/kafka-connect-ui	Web based UI for Kafka Connect.	17	[OK]			
digitalwonderland/kafka	Latest Kafka - clusterable	15	[OK]			
tchiotludo/kafkahq	Kafka GUI to view topics, topics data, consu	6	[OK]			
solsson/kafka-manager	Deprecated in favor of solsson/kafka:cmak	5	, Ιοκ 1			
solsson/kafkacat	https://github.com/edenhill/kafkacat/pull/110	5	[ок]			
solsson/kafka-consumers-prometheus	https://github.com/cloudworkz/kafka-minion	4				
solsson/kafka-prometheus-jmx-exporter	For monitoring of Kubernetes Kafka clusters	4	[OK]			
mesosphere/kafka-client	Kafka client	3	[οκ]			
zenko/kafka-manager	Kafka Manger https://github.com/yahoo/kafka	2	<u>Γοκ 1</u>			
zenreach/kafka-connect	Zenreach's Kafka Connect Docker Image	2				
digitsv/kafka-magic	Kafka Magic images	2				
anchorfree/kafka	Kafka broker and Zookeeper image	2				
	, 5					
C:\Users\Rafael\Desktop\Academics\CoE19	97\ME8 Containerization and Docker\3-building ima	ges>docker pul	l spotify/kafka			
Jsing default tag: latest						
latest: Pulling from spotify/kafka						
386a066cd84a: Pull complete						
75ea84187083: Pull complete						
3e2e387eb26a: Pull complete						
eef540699244: Pull complete						
1624a2f8d114: Pull complete						
7018f4ec6e0a: Pull complete						
5ca3bc2ad3b3: Pull complete						
558810c91c6a: Pull complete						
c8bd0e6d651a: Pull complete						
d471f5c9f3f2: Pull complete						
Digest: sha256:cf8f8f760b48a07fb99df24f	ab8201ec8b647634751e842b67103a25a388981b					
Status: Downloaded newer image for spotify/kafka:latest						
docker.io/spotify/kafka:latest						
C:\Users\Rafael\Desktop\Academics\CoE19	97\ME8 Containerization and Docker\3-building ima	ages>				
			·			

# C. Tagging Images

```
In the previous exercise "Building Images", we built and
tagged an image as `<DockerHub username>/ping`. If you
mistagged this image with something other than your DockerHub
user name, it's no problem: we can re-tag it.
Just use `docker tag` to add a new tag with your DockerHub
user name, and give it a version:
ping
latest
                                  2 minutes ago
.21MB
ubuntu
16.04
                   6a2f32de169d 5 days ago
L17MB
docker tag ping delner/ping:1.0
 docker images
IMAGE ID
                   CREATED
                                       SIZE
delner/ping
```

ping				
latest	a980ae1c79ea	5	minutes	ago
121MB				
ubuntu				
16.04	6a2f32de169d	5	days ago	)
117MB				
\$				

You can see the same image ID now maps to both the old and new tag. To remove the old tag, run `docker rmi` with the old image tag:

# . . .

\$ docker rmi ping

Untagged: ping:latest

\$ docker images

· · · · · · · · · · · · · · · · · · ·			
REPOSITORY			TAG
IMAGE ID	CREATED	SIZE	
delner/ping			1.0
a980ae1c79ea	6 minutes ago	121MB	
ubuntu			
16.04	6a2f32de169d	5 days ago	
117MB			
\$			

C:\Users\Rafael\Desktop\Academics\CoE197\ME8\_Containerization\_and\_Docker\3-building\_images>docker tag delner/ping pugay21/ping:1.0

C:\Users\Rafael\Desktop\Academics\CoE197\ME8\_Containerization\_and\_Docker\3-building\_images>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
delner/ping latest c7e72f2960a8 37 minutes ago 139MB
other can be compared to the compared to th

C:\Users\Rafael\Desktop\Academics\CoE197\ME8\_Containerization\_and\_Docker\3-building\_images>\_

You can see the same image ID now maps to both the old and new tag. To remove the old tag, run `docker rmi` with the old image tag:

```
C:\Users\Rafael\Desktop\Academics\CoE197\ME8 Containerization and Docker\3-building images>docker images
REPOSITORY
                        IMAGE ID
                                        CREATED
                                                        SIZE
delner/ping
               latest
                        c7e72f2960a8
                                        37 minutes ago
                                                        139MB
ougay21/ping
                         c7e72f2960a8
                                        37 minutes ago
               1.0
                                                        139MB
(none>
               <none>
                         9ae92f186732
                                       41 minutes ago
                                                        170MB
                                       43 minutes ago
                        bb7590d78317
(none>
               <none>
                                                        170MB
               16.04
                        065cf14a189c
                                       30 hours ago
                                                        135MB
ubuntu
spotify/kafka latest
                        a9e0a5b8b15e
                                       4 years ago
                                                        443MB
C:\Users\Rafael\Desktop\Academics\CoE197\ME8_Containerization_and_Docker\3-building_images>docker rmi delner/ping
Jntagged: delner/ping:latest
C:\Users\Rafael\Desktop\Academics\CoE197\ME8 Containerization and Docker\3-building images>docker images
                       IMAGE ID
                                       CREATED
REPOSITORY
                                                        SIZE
ougay21/ping
               1.0
                         c7e72f2960a8
                                       38 minutes ago
                                                        139MB
               <none>
                         9ae92f186732
                                       42 minutes ago
                                                        170MB
(none>
               <none>
                        bb7590d78317 44 minutes ago
                                                        170MB
               16.04
                        065cf14a189c
                                       30 hours ago
ubuntu
                                                        135MB
spotify/kafka
              latest
                        a9e0a5b8b15e
                                       4 years ago
                                                        443MB
C:\Users\Rafael\Desktop\Academics\CoE197\ME8_Containerization_and_Docker\3-building_images>
```

### D. Pushing an image

```
To push an image, all you need to do is call 'docker push' with the tag.
```

```
$ docker push delner/ping:1.0
The push refers to a repository [docker.io/delner/ping]
3b372b8ab44b: Pushed
ab4b9ad8d212: Mounted from library/ubuntu
57e913ee49e5: Mounted from library/ubuntu
2ea6deead2b0: Mounted from library/ubuntu
7cbd4b94e525: Mounted from library/ubuntu
e86a0c422723: Mounted from library/ubuntu
1.0: digest:
```

sha256:1881fd1efdde061d3aede939b8696c0e6d0b36e9f8b38abc oc60592a60 size: 1568



```
C:\Users\Rafael\Desktop\Academics\CoE197\ME8_Containerization_and_Docker\3-building_images>docker push pugay21/ping:1.0
The push refers to repository [docker.io/pugay21/ping]
ee43d2036606: Pushed
d07b1c131bb8: Mounted from library/ubuntu
2788d2f5dd8f: Mounted from library/ubuntu
04d694391e96: Mounted from library/ubuntu
44d694391e96: Mounted from library/ubuntu
1.0: digest: sha256:56eab9c3d40dc35e96e2f28b278d1465cdee88457a7c92ace2eb884c715d7b2d size: 1361
```